

CLAIMS

1. A genetically-modified, non-human mammal, wherein the genetic modification results in a disrupted RAMP1 or RAMP3 gene.

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2. The mammal of claim 1, wherein said mammal is a mouse.

3. The mammal of claim 1, wherein said mammal expresses an exogenous reporter gene under the control of the regulatory sequences of said RAMP1 or RAMP3 gene.

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4. A genetically-modified, non-human mammal, wherein said mammal is heterozygous for a genetic modification which results in a disrupted RAMP2 gene and results in expression of an exogenous reporter gene under the control of the regulatory sequences of said RAMP2 gene.

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5. The mammal of claim 4, wherein said mammal is a mouse.

6. A genetically-modified animal cell, wherein the modification comprises a disrupted RAMP1, RAMP2, or RAMP3 gene.

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7. The animal cell of claim 6, wherein said cell is an embryonic stem (ES) cell.

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8. The animal cell of claim 6, wherein said cell is human or murine.

9. A membrane preparation derived from a genetically-modified animal cell comprising a disrupted RAMP1, RAMP2, or RAMP3 gene.

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10. A method of treating a disorder associated with liver function and/or muscle metabolism in a mammal, said method comprising administering an agent that modulates RAMP1 activity.

FOOTNOTES

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wherein a difference between said expression in (a), (b), or (c), in the absence of the agent and in the presence of the agent is indicative that the agent can modulate RAMP1, RAMP2, or RAMP3 gene expression, respectively.

- 5 14. The method of claim 13, wherein said coding sequence encodes a reporter polypeptide.

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